

DEPARTMENT OF COMMERCE
BUREAU OF STANDARDS
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Letter
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STANDARDS AND SPECIFICATIONS FOR BUILDING MATERIALS

Listed herein are Commercial Standards, Simplified Practice Recommendations, and Federal Specifications for various kinds of building materials.

Copies of the printed Commercial Standards and Simplified Practice Recommendations may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C. Copies of several of the publications not yet printed are available, without cost, in mimeograph form.

All of the Federal Specifications have recently been, or are now being, revised. They are listed herein under both their new classification symbols and their old numerical designations.

For many of these specifications there have been compiled lists of sources of supply of material guaranteed to comply with the specification requirements. These lists can be obtained without cost from the Bureau of Standards, Washington, D. C.

Copies of the Federal specifications which have been printed may be purchased from the Superintendent of Documents at 5 cents each with the exception of FF-H-101 (30 cents); SS-C-191 (10 cents) and WW-P-541 (15 cents). Information concerning copies of Federal Specifications not yet printed can be obtained from the Federal Specifications Board, Bureau of Standards, Washington, D. C.

An index of all current Federal Specifications, indicating the status of the specifications and showing the price of printed copies, will shortly be published as Section IV of the Federal Standard Stock Catalogue. Copies of this index may be purchased from the Superintendent of Documents, possibly at 10 cents each - the price of the earlier edition.

COMMERCIAL STANDARDS FOR BUILDING MATERIALS

Below are listed commercial standards for various kinds of building materials. Lists of manufacturers willing to supply material guaranteed by them to comply with all of these standards have been compiled by the Bureau of Standards.

<u>CS No.</u>	<u>Title</u>	<u>Price</u>
0-30	The Commercial Standards Service and Its Value to Business-----	10¢
4-29	Staple Porcelain (All-Clay) Plumbing Fixtures-----	10¢
5-29	Steel Pipe Nipples-----	10¢
6-31	Wrought-Iron Pipe Nipples-----	5¢
7-29	Standard Weight Malleable Iron or Steel Screwed Unions-----	5¢
9-29	Builders' Template Hardware-----	10¢
10-29	Brass Pipe Nipples-----	5¢
16-29	Wall Paper-----	5¢
20-30	Staple Vitreous China Plumbing Fixtures-----	10¢
22-30	Builders' Hardware (Nontemplate)-----	10¢
26-30	Aromatic Red Cedar Closet Lining-----	5¢
27-30	Plate Glass Mirrors-----	5¢
28-32	Cotton Fabric Tents, Tarpaulins and Covers-----	10¢
30-31	Colors for Sanitary Ware (in preparation)-----	Mimeo.*
31-31	Red Cedar Shingles-----	10¢
35-31	Plywood-----	10¢

*May be obtained from the Bureau of Standards in mimeographed form.

Note: Printed Pamphlets may be obtained for the price indicated from the Superintendent of Documents, Government Printing Office, Washington, D. C.

List of publications covering commonly used house-building materials, the manufacturers of which have adopted Simplified Practice Recommendations (SPR). These publications may be obtained at prices shown from the Superintendent of Documents, Government Printing Office, Washington, D. C.

SPR

No.	Item	Price
1-29	Vitrified Paving Brick (seventh edition)-----	10¢
3-28	Metal Lath (second edition)-----	5¢
4	Asphalt (first revision)-----	5¢
7	Rough and Smooth Face Brick-----	5¢
8-29	Range Boilers and Expansion Tanks (second edition)-----	10¢
9-28	Woven Wire Fencing (second edition)-----	5¢
12	Hollow Building Tile (first revision)-----	5¢
13-28	Structural Slate for Plumbing and Sanitary Purposes (second edition)-----	10¢
14-28	Roofing Slate (second edition)-----	5¢
16-29	*Lumber (fourth edition)-----	30¢
19-28	Asbestos Millboard (third edition)-----	5¢
21	Brass Lavatory and Sink Traps-----	5¢
25	Hot Water Storage Tanks-----	5¢
26-30	Steel Reinforcing Bars (second edition)-----	5¢
28-29	Sheet Steel (second edition)-----	10¢
29	Eaves Trougn and Conductor Pipe-----	5¢
30-28	Roofing Ternes (Weights) (first revision)-----	5¢
32	Concrete Building Units (Length, Width and Height of Blocks, Tile and Brick)-----	5¢
38	Sand Lime Brick (Length, Width and Height)-----	5¢
49	Sidewalk lights-----	5¢
52	Staple Vitreous China Plumbing Fixtures (Incorporated in Commercial Standards CS20-30)-----	10¢
57	Wrought-Iron and Wrought-Steel Pipe, Valves and Pipe Fittings-----	5¢
61-30	Clay Tiles for Floors and Walls (second edition)-----	10¢
78-28	Iron and Steel Roofing-----	5¢
82-28	Hollow Metal Doors-----	5¢
83-28	Kalamein Doors-----	5¢
87-29	Forms for Concrete Joist Construction Floors-----	5¢
94-30	Open Web Steel Joists-----	5¢
101-29	Metal Partitions for Toilets and Showers-----	10¢
106-30	Hospital Plumbing Fixtures-----	10¢
109-29	Refrigerator Ice Compartments-----	10¢
111-30	Color for School Furniture-----	5¢
121-31	Block Sizes for Calcimine Brushes-----	5¢
122-31	Wire Insect Screen Cloth-----	**
RXI-28	Simplified Practice: What it is and What it Offers-----	15¢

* In process of revision.

** May be obtained from the Bureau of Standards in mimeographed form.

BUILDING MATERIAL SPECIFICATIONS

Index of Federal Specifications for Building Materials
arranged by Commodity Groups.

*Lists of willing-to-certify sources of supply have been compiled.

<u>Specification</u>	<u>Title</u>	<u>Original</u> <u>F.S.B. No.</u>
<u>ANIMAL PRODUCTS</u>		
*C-F-201	Felt; hair-----	158
C-G-451	Glue; animal (for) woodworking-----	---
<u>CABLE AND WIRE</u>		
*J-C-101	Cable and Wire; rubber-covered (for) ordinary purposes-----	65
<u>CHEMICALS</u>		
*O-F-351	Fire Extinguishers; chemical, hand, carbon-tetrachloride type-----	124
*O-F-355	Fire Extinguishers; chemical, hand, soda and acid type-----	213
*O-F-360	Fire-Extinguishing-Liquid; carbon- tetrachloride base-----	36
<u>COAL-TAR AND PRODUCTS</u>		
*R-P-351	Pitch; coal-tar, roofing-----	80
*R-P-361	Pitch; coal-tar, waterproofing-----	83
*R-T-101	Tar; cold-application (for) roads-----	279
*R-T-121	Tar; refined, construction (for) roads-----	282
*R-T-131	Tar; refined, hot-application (for) roads-----	280
*R-T-141	Tar; repair-work (for) roads-----	281
<u>CORDAGE, TWINE, AND PRODUCTS</u>		
*T-C-571	Cord; sash, cotton, braided-----	528
<u>ELECTRIC-APPARATUS</u>		
*W-B-81	Bases; cut-out-----	55
*W-B-101	Batteries and Cells; dry-----	58
W-F-101	Fans; electric, desk and bracket type-----	491
W-F-391	Fire-Alarm-Systems; electric, hand- operated-----	---
W-F-791	Fuses; cartridge, inclosed, nonrenewable--	56
*W-F-801	Fuses; cartridge, inclosed, renewable-----	176
*W-F-831	Fuses; plug, nonrenewable-----	346
*W-L-101	Lamps; electric, incandescent, large tungsten-filament-----	23

Specification
Symbol

Title

Original
F.S.B. No.

ELECTRIC APPARATUS (Continued)

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*W-S-871	Switches; knife-----	175
*W-S-891	Switches; snap-----	62
W-T-411	Time-Clock-Systems; electric-----	---
W-W-101	Watchmen's Report-Apparatus-----	---

GLASS AND GLASSWARE

*DD-G-451	Glass; flat (for) glazing purposes-----	123
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HARDWARE

FF-B-571	Bolts; Nuts; Studs; and Tap-Rivets-----	548
*FF-H-101	Hardware; builders', nontemplate-----	336
FF-N-101	Nails; Spikes; Staples; and Tacks-----	534
*FF-P-101	Padlocks-----	413
*FF-S-111	Screws; wood-----	52

INSULATING MATERIALS

*HH-B-671	Brick; fire-clay-----	268
*HH-C-451	Clay; fire-----	334
*HH-C-571	Cork; granulated, insulating-----	338
*HH-C-581	Cotton-Fabric; woven, asphalt-saturated (for) waterproofing-----	294
*HH-F-231	Felt; rag, asphalt saturated (for) flashings-----	295
*HH-F-236	Felt; rag, asphalt-saturated (for) roofing and waterproofing-----	86
*HH-F-241	Felt; rag, coal-tar-saturated (for) roofing and waterproofing-----	81
*HH-I-531	Insulation; 30% rubber, for wire and cable (for) general purposes-----	587
*HH-M-51	Magnesia; asbestos, plaster-----	211
*HH-M-71	Magnesia; block, pipe-covering (molded)---	212
*HH-M-351	Millboard; asbestos-----	54
*HH-T-791	Tubing; flexible, nonmetallic-----	57

KNIT GOODS, NETTING, AND WEBBING

JJ-H-571	Hose; fire, linen, unlined-----	527
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LUMBER AND TIMBER

*MM-L-701	Lumber; (grading and inspection rules, adopted by the various lumber manufac- turing associations of the United States) ..	24
*MM-L-751	Lumber; softwood, factory and yard-----	533

METALS

QQ-B-71	Bars; reinforcement, concrete-----	350
*QQ-B-101	Bases; metal; (for) plaster and stucco construction-----	553
QQ-F-451	Flashings; metal (installation with bituminous built-up roofing)-----	156
*QQ-L-201	Lead; sheet-----	308
QQ-N-341	Nickel-Steel; structural-----	372
QQ-S-701	Steel; staybolt (boiler)-----	550
QQ-S-721	Steel; structural (for) buildings-----	352
*QQ-Z-301	Zinc; plates, sheets, and strips-----	531

MINERALS AND PRODUCTS (non-metallic)

SS-A-676	Asphalt; emulsion, quick-breaking-type (for use in road work)-----	---
SS-A-681	Asphalt; emulsion, slow-breaking-type (for use in road work)-----	---
*SS-A-691	Asphalt; (for) mineral-surfaced roofing---	84
*SS-A-696	Asphalt; petroleum, type PAF-1-25, (for) joint-filler (squeegee or pouring method)-----	277
*SS-A-701	Asphalt-Primer; (for) roofing and waterproofing-----	87
*SS-A-706	Asphalt; (for use in) road and pavement construction-----	276
*SS-A-711	Asphalt; (for) unsurfaced built-up roofing-----	88
*SS-A-716	Asphalt; (for) waterproofing and damp-proofing-----	85
*SS-B-661	Brick; common, clay-----	504
SS-B-663	Brick; common, concrete-----	---
*SS-B-666	Brick; common, sand-lime-----	505
SS-B-671	Brick; paving-----	---
SS-B-676	Broken-Stone and Broken-Slag; (for) binder-course sheet-asphalt-pavement-----	459
SS-B-679	Broken-Stone and Broken-Slag; (for) bituminous-concrete-base or surface-course-----	458
SS-B-682	Broken-Stone and Broken-Slag; (for) bituminous-macadam-base or surface-course-----	457
SS-B-685	Broken-Stone and Broken-Slag (or) Gravel; (for) bituminous surface-treatment-----	455
SS-B-688	Broken-Stone and Broken-Slag; (for) waterbound base or wearing course-----	456
*SS-C-151	Cement; asphalt, plastic-----	380
*SS-C-171	Cement; magnesia, plastic (magnesia-oxychloride)-----	445
*SS-C-181	Cement; masonry-----	443

MINERALS AND PRODUCTS (non-metallic) (Continued)

*SS-C-191	Cement; Portland-----	1
SS-C-571	Coarse-Aggregate; (for) Portland cement-concrete-pavement or base (crushed stone, gravel, or slag)-----	454
SS-C-621	Concrete-Units; masonry, hollow-----	---
SS-F-111	Facings; foundry, carbon-base-----	---
SS-F-351	Fine-Aggregate; (for) Portland cement-concrete-pavement or base (sand, etc.)-----	464
SS-F-451	Flashings; plastic (installation with bituminous built-up roofing)-----	157
SS-G-651	Granite-Blocks; recut granite, and durax granite pavements-----	510
*SS-G-901	Gypsum; calcined-----	248
*SS-L-351	Lime; hydrated (for) structural purposes-----	249
SS-M-51	Materials; (for) cushion course, brick, stone-block, or wood-block pavements (sand, slag, limestone, screenings, etc.)-----	465
SS-M-91	Materials; (for) top-soil or sand-clay road surfaces-----	452
SS-M-351	Mineral-Filler; (for) sheet asphalt or asphaltic concrete pavements (Portland cement, limestone dust and dolomite dust)-----	463
*SS-P-401	Plaster; gypsum-----	247
*SS-P-431	Plaster-Board; gypsum-----	285
*SS-Q-351	Quicklime; (for) structural purposes-----	250
*SS-R-191	Refractories; fire-clay, plastic-----	335
*SS-R-451	Roof-Coating; asphalt, fibrous-----	424
*SS-R-501	Roofing; asphalt, prepared-----	214
*SS-R-511	Roofing; asphalt (and asbestos), prepared, slate-surfaced-----	423
*SS-R-521	Roofing and Shingles; asphalt, prepared, slate-surfaced-----	296
SS-R-551	Roofing; built-up, type 3ACS (construction of)-	148
SS-R-554	Roofing; built-up, type 3TCS (construction of)-	151
SS-R-557	Roofing; built-up, type 41CS (construction of)-	149
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SS-R-566	Roofing; built-up, type 4TWS (construction of)-	154
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SS-R-572	Roofing; built-up, type 5AWS (construction of)-	147
SS-R-575	Roofing; built-up, type 5TCS (construction of)-	153
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SS-S-51	Sand; (for) cement-mortar-bed, brick, stone-block or wood-block pavements-----	462
SS-S-61	Sand; (for) grout-filler, brick and stone-block pavements-----	461
SS-S-71	Sand; (for use in) sheet asphalt or bituminous concrete pavements-----	460

<u>Specification Symbol</u>	<u>Title</u>	<u>Original F.S.B. No.</u>
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MINERALS AND PRODUCTS (non-metallic) (Continued)

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*SS-S-791	Surfacing-Material; (for) bituminous built-up roofing-----	82
*SS-T-301	Tile; clay, hollow, fireproofing, partition and furring-----	508
*SS-T-321	Tile; clay, hollow, floor-----	506
*SS-T-341	Tile; clay, hollow, load-bearing wall-----	507
*SS-W-51	Wall-Board; gypsum-----	284
*SS-W-101	Waterproofing-Material; integral (for use with Portland cement, mortar or concrete)-	444

PAINTS, PIGMENTS, VARNISHES AND PRODUCTS

TT-B-601	Boneblack; dry, paste-in-japan, paste-in-oil	---
TT-C-231	Chrome, green; oxide-----	---
TT-C-236	Chrome, green; pure, dry, paste-in-japan, paste-in-oil-----	---
TT-C-251	Chrome, ore; ground-----	125
*TT-C-291	Chrome, yellow; dry, paste-in-japan, paste- in-oil (lemon, medium, orange)-----	476
*TT-D-651	Drier; paint, liquid-----	20
TT-E-521	Enamel; pigmented (air-drying and baking), black-----	---
*TT-E-531	Enamel; water-resisting, red-----	66
TT-L-71	Lampblack; dry, paste-in-japan, paste-in-oil	---
*TT-O-111	Ocher; dry, paste-in-japan, paste-in-oil-----	12
*TT-P-31	Paints; iron-hydroxide and iron-oxide, ready- mixed and semipaste-----	13
*TT-P-36	Paints; lead-zinc base, ready-mixed and semi- paste, white and tinted-----	10
*TT-P-41	Paints; lithopone, interior, flat and eggshell- finish, ready-mixed and semipaste, light tints and white-----	21
*TT-P-46	Paints; lithopone, interior, gloss, light tints and white-----	67
*TT-P-61	Paint; ready-mixed and semipaste, black-----	14
*TT-P-71	Paints; ready-mixed and semipaste, green-----	15
*TT-P-81	Paints; ready-mixed and semipaste, olive-drab	137
*TT-P-101	Paints; titanium-zinc, outside, ready-mixed and semipaste, white-----	278
TT-P-691	Prussian-Blue; dry, paste-in-japan, paste-in- oil-----	---
*TT-P-791	Putty-----	283
*TT-R-191	Red-Lead; dry and paste-in-oil-----	11
*TT-S-271	Shellac; orange-----	375
*TT-T-271	Thinner; paint (for) semipaste paints-----	17
*TT-T-291	Thinner; paint, volatile mineral spirits-----	16

<u>Specification Symbol</u>	<u>Title</u>	<u>Original F.S.B. No.</u>
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PAINTS, PIGMENTS, VARNISHES AND PRODUCTS (Continued)

TT-U-451	Ultramarine-Blue; dry, paste-in-japan, paste-in-oil-----	---
* TT-V-51	Varnish; asphalt-----	19
* TT-V-71	Varnish; interior-----	22
* TT-V-91	Varnish; shellac-----	376
* TT-V-121	Varnish; spar, water-resisting-----	18
* TT-W-251	White-Lead; basic-carbonate, dry, paste-in-oil, and semipaste-in-oil-----	5
* TT-W-261	White-Lead; basic-sulphate, dry and paste-in-oil-----	6
TT-W-556	Wood-Preservative; coal-tar creosote (for) ties and structural timbers-----	395a-I
TT-W-561	Wood-Preservative; creosote (for) brush and spray-treatment-----	395a-III
TT-W-566	Wood Preservative; creosote-coal-tar-solution (for) ties and structural-timbers-----	395a-II
TT-W-571	Wood-Preservative; preservative-treatment-----	395a-V
TT-W-576	Wood-Preservative; zinc-chloride (for) ties and structural-timber-----	395a-IV
* TT-Z-301	Zinc-Oxide; dry and paste-in-oil-----	8
* TT-Z-321	Zinc-Oxide; leaded, dry and paste-in-oil-----	9

PETROLEUM AND PRODUCTS

*VV-O-751	Oil; road, type OH-1-25, hot application-----	275
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PIPE, PIPE-FITTINGS, PLUMBING-FIXTURES, TUBES, AND TUBING (metallic)

*WW-C-571	Conduit; enameled, rigid-----	311
WW-N-351	Nipples, pipe; brass, steel, and wrought-iron -----	---
*WW-P-351	Pipe; brass, seamless, iron-pipe-size, standard and extra-strong-----	342
*WW-P-371	Pipe; concrete, plain-----	495
*WW-P-378	Pipe and Tubing; copper, seamless; pipe (Standard, iron-pipe-size); tubing (for) pressures up to 450 pounds per square inch)	287
*WW-P-401	Pipe and Pipe-Fittings; soil, cast-iron (coated and uncoated)-----	343
WW-P-421	Pipe; water, cast-iron (bell and spigot)-----	537
*WW-P-431	Pipe; welded-steel, black and zinc-coated-----	162
*WW-P-441	Pipe; wrought-iron, welded, black and galvanized-----	242
WW-P-448	Pipe-Fittings; brass or bronze (threaded), 125-lb.-----	---
*WW-P-451	Pipe-Fittings; cast-iron (threaded)-----	489
*WW-P-471	Pipe-Fittings; malleable-iron (threaded), 150-lb.-----	535
WW-P-541	Plumbing-Fixtures; (for) land use-----	443
*WW-T-721	Tubes; boiler, iron, lapwelded, charcoal-----	349

<u>Specification Symbol</u>	<u>Title</u>	<u>Original F.S.B. No.</u>
<u>PIPE, PIPE-FITTINGS, PLUMBING-FIXTURES, TUBES, AND TUBING (metallic) (Continued)</u>		
*WW-T-751	Tubes; boiler, steel, lapwelded and seamless---	347
*WW-U-531	Unions; malleable-iron or steel-----	393
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ZZ-H-461	Hose; gas-----	40
ZZ-M-71	Matting; rubber-----	382
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CCC-C-406	Cloth; awning-----	---
*CCC-C-521	Cloth; shade-----	555
<u>TEXTILE PRODUCTS</u>		
*DDD-S-251	Shades, window; rollers, slats, cords, and accessories-----	367
<u>TOOLS</u>		
GGG-P-351	Pipe Threads-----	238
<u>VEGETABLE PRODUCTS</u>		
*JJJ-0-331	Oil; linseed, boiled-----	475
*JJJ-0-336	Oil; linseed, raw-----	4
<u>WOOD PRODUCTS</u>		
*LLL-C-571	Cork; compressed (cork board)-----	337
*LLL-L-351	Linoleum; battleship-----	209
*LLL-L-361	Linoleum; plain, inlaid and printed-----	210
*LLL-T-791	Turpentine; (gum-spirits of turpentine, and steam-distilled wood turpentine)-----	7
LLL-W-111	Wall-Board, fiber-----	---





